Courage to Soar			
2004 Mathematics			
Curriculum Framework			
Arkansas Mathematics			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Kite Flight	AR	MA.3.DAP.14.3.1	Design a survey question after being given a topic and collect, organize, display and describe simple data using frequency tables or line plots, pictographs, and bar graphs
Soaring Higher	AR	MA.3.NO.1.3.2	Use the place value structure of the base ten number system and be able to represent and compare whole numbers including thousands (using models, illustrations, symbols, expanded notation and problem solving)
The Flight Timeline	AR	MA.3.NO.1.3.2	Use the place value structure of the base ten number system and be able to represent and compare whole numbers including thousands (using models, illustrations, symbols, expanded notation and problem solving)
The Flight Timeline	AR	MA.3.DAP.14.3.1	Design a survey question after being given a topic and collect, organize, display and describe simple data using frequency tables or line plots, pictographs, and bar graphs
Having the Right Stuff	AR	MA.3.NO.1.3.2	Use the place value structure of the base ten number system and be able to represent and compare whole numbers including thousands (using models, illustrations, symbols, expanded notation and problem solving)
Flying a Styrofoam Plane	AR	MA.3.M.12.3.4.a	Demonstrate the relationship among different standard units (Length: 12 in = 1 ft, 3 ft = 1 yd, 36 in = 1 yd)
Flying a Styrofoam Plane	AR	MA.3.M.13.3.9.a	Estimate and measure length, capacity/volume and mass using appropriate customary units (Length: 1 inch)
Looking for Answers:A research project	AR	MA.3.DAP.14.3.1	Design a survey question after being given a topic and collect, organize, display and describe simple data using frequency tables or line plots, pictographs, and bar graphs
Controlling the Plane	AR	MA.3.DAP.15.3.1	Read and interpret pictographs and bar graphs in which symbols or intervals are greater than one
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Grade 4			
Activity/Lesson	**State**	**Standards**	
Soaring Higher	AR	MA.4.NO.1.4.2	Use the place value structure of the base ten number system and be able to represent and compare whole numbers to millions (using models, illustrations, symbols, expanded notation and problem solving)
Soaring Higher	AR	MA.4.DAP.15.4.1	Represent and interpret data using pictographs, bar graphs and line graphs in which symbols or intervals are greater than one
The Flight Timeline	AR	MA.4.NO.1.4.2	Use the place value structure of the base ten number system and be able to represent and compare whole numbers to millions (using models, illustrations, symbols, expanded notation and problem solving)
Having the Right Stuff	AR	MA.4.NO.1.4.2	Use the place value structure of the base ten number system and be able to represent and compare whole numbers to millions (using models, illustrations, symbols, expanded notation and problem solving)
Having the Right Stuff	AR	MA.4.NO.1.4.3	Use mathematical language and symbols to compare and order any whole numbers with and without appropriate technology (<, >, =)
Flying a Styrofoam Plane	AR	MA.4.M.12.4.3.a	Use the relationship among units of measurement (Length: 12 in = 1 ft; 3 ft = 1 yd; 36 in = 1 yd; 100 cm = 1 m)
Flying a Styrofoam Plane	AR	MA.4.M.13.4.8.a	Estimate and measure length, capacity/volume and mass using appropriate customary and metric units (Length: 1/2 inch, 1 cm)
Looking for Answers:A research project	AR	MA.4.A.6.4.1	Create a chart or table to organize given information and to understand relationships and explain the results
Looking for Answers:A research project	AR	MA.4.DAP.14.4.1	Create a data collection plan after being given a topic and collect, organize, display, describe and interpret simple data using frequency tables or line plots, pictographs and bar graphs
Controlling the Plane	AR	MA.4.DAP.14.4.1	Create a data collection plan after being given a topic and collect, organize, display, describe and interpret simple data using frequency tables or line plots, pictographs and bar graphs

Controlling the Plane	AR	MA.4.DAP.15.4.1	Represent and interpret data using pictographs, bar graphs and line graphs in which symbols or intervals are greater than one
Courage to Soar			
2004 Mathematics			
Curriculum Framework			
Arkansas Mathematics			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Kite Flight	AR	MA.5.DAP.14.5.1	Develop appropriate questions for surveys
Soaring Higher	AR	MA.5.A.6.5.1	Draw conclusions and make predictions, with and without appropriate technology, from models, tables and line graphs
Soaring Higher	AR	MA.5.DAP.14.5.2	Collect numerical and categorical data using surveys, observations and experiments that would result in bar graphs, line graphs, line plots and stem-and-leaf plots
Flying a Styrofoam Plane	AR	MA.5.M.13.5.5	Count the distance between two points on a horizontal or vertical line and compare the lengths of the paths on a grid
Flying a Styrofoam Plane	AR	MA.5.DAP.14.5.2	Collect numerical and categorical data using surveys, observations and experiments that would result in bar graphs, line graphs, line plots and stem-and-leaf plots
Looking for Answers:A research project	AR	MA.5.DAP.14.5.2	Collect numerical and categorical data using surveys, observations and experiments that would result in bar graphs, line graphs, line plots and stem-and-leaf plots
Controlling the Plane	AR	MA.5.DAP.14.5.2	Collect numerical and categorical data using surveys, observations and experiments that would result in bar graphs, line graphs, line plots and stem-and-leaf plots
Controlling the Plane	AR	MA.5.DAP.14.5.3	Construct and interpret frequency tables, charts, line plots, stem-and-leaf plots and bar graphs